

Zoological Record

Vol. 90. Sect. 8, 1953

# BRYOZOA (POLYZOA)

COMPILED BY

ANNA B. HASTINGS, M.A., Ph.D.

LONDON

PUBLISHED BY

THE ZOOLOGICAL SOCIETY OF LONDON

---

PRICE TWO SHILLINGS  
JULY, 1955

# SEPARATE SECTIONS OF THE ZOOLOGICAL RECORD

---

In addition to the complete bound volume, the separate Sections may be obtained singly, bound in printed paper covers.

The following are the Sections and their prices, viz. :—

		<i>s.</i>	<i>d.</i>
1.	Comprehensive Zoology	...	2 6
2.	Protozoa	...	7 6
3.	Porifera	...	2 0
4.	Coelenterata	...	4 0
5.	Echinoderma	...	2 6
6.	Vermes	...	10 0
7.	Brachiopoda	...	3 0
8.	Bryozoa	...	2 0
9.	Mollusca	...	10 0
10.	Crustacea	...	5 0
11.	Trilobita	...	3 0
12.	Arachnida	...	7 6
*13.	Insecta	...	30 0
14.	Protochordata	...	2 0
15.	Pisces	...	7 0
16A.	Amphibia	...	3 6
16B.	Reptilia	...	4 0
17.	Aves...	...	7 6
18.	Mammalia	...	7 6
19.	List of New Genera and Subgenera	...	3 0

\* Obtainable only from the Commonwealth Institute of Entomology, 56, Queen's Gate, London, S.W.7.

# 8. BRYOZOA (POLYZOA)

ARRANGED BY

ANNA B. HASTINGS, M.A., Ph.D.

## CONTENTS

	PAGE
I. TITLES ... ... ... ...	1
II. SUBJECT INDEX ... ... ...	4
III. SYSTEMATIC INDEX ... ... ...	5

## I. TITLES

1.—**Allen**, F. E. Distribution of marine invertebrates by ships. Aust. J. mar. & freshw. Res. **4** 2 1953 : 307-316.

**Amar**, R., see Pérès, J. M.

2.—**Balavoine**, P. Bryozoaires récoltés en septembre 1952 dans la région de Dinard. Bull. Lab. Dinard fasc. 38 1953 : 16-19.

3.—**Balavoine**, P. Sur la présence du genre *Trochiliopora* dans le Sénonien du Bassin de Paris et description de *Trochiliopora caffini* nov. sp. Bull. Soc. géol. Fr. **6** 3 1953 : 579-581 1 pl. 1 text-fig.

**Balavoine**, P. see Silén, L.

**Bassindale**, R. see Lilly, S. J.

4.—**Bassler**, R. S. Bryozoa in R. C. Moore, Treatise on Invertebrate Paleontology, Part G, 1953 : G1-G253 175 text-figs.

VOL. 90

5.—**Bobin**, G. and **Prenant**, M. Sur les Loxosomes du *Phascolion strombi* (Montagu) et sur la spécificité de l'inquilinisme des Loxosomes. Arch. Zool. exp. gén. Paris **90** 1953 Notes et Rev. 1 : 18-41 7 text-figs.

6.—**Bobin**, G. and **Prenant**, M. Les populations de Loxosomes du *Phascolion strombi* (Montagu). Arch. Zool. exp. gén. Paris **90** 1953 Notes et Rev. 3 : 93-104 3 text-figs.

7.—**Bobin**, G. and **Prenant**, M. Deux Loxosomes nouveaux de Roscoff. Arch. Zool. exp. gén. Paris **91** 1953 Notes et Rev. 1 : 25-35.

8.—**Bobin**, G. and **Prenant**, M. Sur trois Loxosomes Méditerranéens. Bull. Inst. Océanog. Monaco No. 1030 1953 : 1-9 3 text-figs.

9.—**Bobin**, G. and **Prenant**, M. La classification des Loxosomes selon Mortensen et le *Loxosoma singulare* de Keferstein et Claparède. Bull. Soc. zool. Fr. **78** 1 1953 : 84-96 5 text-figs.

h-1

- 10.**—**Bobin**, G. and **Prenant**, M. Sur les populations de Loxosomes des Aphrodites et Hermiones. Bull. Soc. zool. Fr. **78** 2-3 1953 : 122-132 4 text-figs.
- 11.**—**Bobin**, G. and **Prenant**, M. Sur deux *Loxocalyx* des côtes françaises. Bull. Soc. zool. France **78** 5-6 1953 : 381-387 1 text-fig.
- 12.**—**Brien**, P. La pérennité somatique. Biol. Res. **28** 3 1953 : 308-349 21 figs.
- Buinitksi**, V. Kh. *see* Kluge, H.
- 13.**—**Dakin**, W. J. and others. Australian seashores. A guide for the beach-lover, the naturalist, the shore fisherman, and the student, London (Angus & Robertson), 1953 : i-xii, 1-372, frontis. col., 99 pls.
- 14.**—**Dale**, N. C. Geology and mineral resources of the Oriskany Quadrangle (Rome Quadrangle). Bull. N.Y. St. Mus. No. 345 1953 : 1-197 38 figs. map.
- 15.**—**Davis**, G. H., III. The contact between the Manlius limestone and the Coeymans limestone in Upper New York State. Circ. N.Y. St. Mus. No. 35 1953 : 1-31.
- 16.**—**Devèze**, L. Note préliminaire sur la présence de Bactéries attaquant la gêlose chez les larves cyphonautes d'*Electra pilosa*. Rec. Trav. Stat. mar. Endoume Fasc. 8 1953 : 43-47.
- 17.**—**Devèze**, L. Contribution à l'étude de la nutrition des stades larvaires planctonique. I. Mise en évidence de l'utilisation possible du contenu bactérien des eaux par les larves cyphonautes d'*Electra pilosa* Linné. Rec. Trav. Stat. mar. Endoume Fasc. 8 1953 : 49-54.
- Duncan**, H. *see* Easton, W. H.
- 18.**—**Easton**, W. H. and **Duncan**, H. *Archimedes* and its genotype. J. Paleont. **27** 5 1953 : 737-741.
- Ebling**, F. J. *see* Lilly, S. J.
- 19.**—No Record.
- 20.**—**Gautier**, Y. Contribution à l'étude des Bryozoaires de Corse. Rec. Trav. Stat. Mar. Endoume, Fasc. 9 1953 : 39-66 9 text-figs. [see also Pérès & others, **43**].
- 21.**—**Gautier**, Y. and **Picard**, J. Note sur trois prétendus hydroïdes. Rec. Trav. Stat. mar. Endoume Fasc. 4 1952 : 57-58.
- Graves**, R. W. *see* Plumley, W. J.
- 22.**—**Holtedahl**, O. Norges Geologi. Norg. geol. Unders. **164** 1 1953 : 178-232 text-figs. 81.
- 23.**—**Humphries**, C. F. A species of Polyzoa, *Caberea boryi* Audouin, new to Ireland. Irish. Nat. Jour. **11** 3 1953 : 80.
- Kałkowski**, W. *see* Wojtusiak, R. J.
- 24.**—**Kato**, K. On a Luminous Bryozoan *Acanthodesia serrata*. Zool. Mag., Tokyo **59** 1950 : 9-10 2 figs.
- 25.**—**Kay**, M. Geology of the Utica Quadrangle, New York. Bull. N.Y. St. Mus. No. 347 1953 : 1-126 66 figs.
- Kitching**, J. A. *see* Lilly, S. J.
- 25B.**—**Kluge**, H. Kamptozoa from the Arctic Ocean. Exp. Drifting Ice Central Arctic Ocean 1937-40, ed. V. Kh. Buinitksi **3** 1946 : 149-157 [Not seen. English summary].
- Kornas**, J. *see* Wojtusiak, R. J.
- 26.**—**Kräusel**, W. *Cyclopelta winteri* (Bryozoa) aus dem Mittel-Devon. der Eifel. Senckenbergiana. **34** 1-3 1953 : 43-52 3 pls. 2 text-figs.
- 27.**—**Lanterno**, E. Étude géologique des environs de Champéry, Val d'Illiez, Valais, Suisse. Arch. Sci., Genève **6** 6 1953 : 295-373 4 pls. 4 figs.
- 28.**—**Lewis**, J. R. The ecology of rocky shores around Anglesey. Proc. zool. Soc. Lond. **123** 3 1953 : 481-549 4 pls. 15 text-figs.
- 29.**—**Lilly**, S. J., **Sloane**, J. F., **Bassindale**, R., **Ebling**, F. J. and **Kitching**, J. A. The ecology of the Lough Ine Rapids with special reference to water currents. IV. The sedentary fauna of sublittoral boulders. J. Anim. Ecol. **22** 1 1953 : 87-122 25 figs. 3 tables.
- 30.**—**Lutaud**, G. Premiers stades de la croissance zoaire chez le Bryozoaire Chéilostome *Scrippocellaria reptans* Thompson. Arch. Zool. exp. gén. Paris **90** Notes & Rev. 1 1953 : 42-58 5 text-figs.

- 31.**—**Lutaud**, G. Progression de la calcification au cours de la métamorphose de la larve chez *Escharoides coccinea* Abildgaard, Bryozoaire chilostome. Arch. Zool. exp. gén. Paris **91** Notes et Rev. 1 1953 : 36–50 5 text-figs.
- 32.**—**Marcus**, E. Notas sobre Bryozos marinhos brasileiros. Arg. Mus. Nac. **42** 1953 : 273–342 8 pls. [English summary].
- 33.**—**Marcus**, E. du B.-R. Bryozoa from Lake Titicaca. Bol. Fac. Ciênc. Letr. Univ. São Paulo, Zool. no. 18 1953 : 149–163 3 pls.
- 34.**—**Mawatari**, S. On *Electra angulata* Levinsen. One of the Fouling Bryozoans in Japan. Misc. Rep. Res. Inst. Nat. Resources no. 32 1953 : 5–10 1 pl. 5 text-figs.
- 35.**—**Mawatari**, S. Studies on Japanese Ctenostomatous Bryozoa, I. On some species of Carnosa. Publ. Seto Mar. Lab. **3** 2 1953 : 213–220 3 pls. 3 text-figs.
- Medwecka-Kornaś**, A. see Wojtusiak, R. J.
- Moore**, R. C. see Bassler, R. S.
- 36.**—**Murdoch**, J. Marine Invertebrates. (Exclusive of Mollusks), in Rep. Internat. Polar Exped. to Point Barrow, Alaska. Washington, 1885 : 136–176 2 pls. [Polyzoa : 167–168].
- 37.**—**Newell**, N. D. Periodicity in invertebrate evolution. J. Paleont. **26** 3 1952 : 371–385 figs. 1–10.
- 38.**—**Okada**, Y. Ill. Encycl. Faun. Jap., Rev. Edit. 1947. [Not seen].
- 39.**—**Osburn**, R. C. Cyclostomata, Entoprocta and Addenda, in Bryozoa of the Pacific Coast of America, part 3. Allan Hancock Pacif. Exped. **14** 3 1953 : 613–725, 759–811, 820–841 14 pls.
- 40.**—**Osburn**, R. C. and **Soule**, J. D. Ctenostomata, in Bryozoa of the Pacific Coast of America, part 3. Allan Hancock Pacif. Exped. **14** 3 1953 : 726–758, 812–819.
- 41.**—**Paproth**, E. Eine Kohlenkalkfauna aus dem Kulmkonglomerat von Frankenberg an der Eder. Paläont. Z. **27** 3–4 1953 : 169–207 pls. 11–12 text-figs. 1–2.
- 42.**—**Pennak**, R. W. Freshwater invertebrates of the United States. New York (Ronald Press Co.) 1953 : i–x, 1–769 470 figs.
- 43.**—**Pérès**, J. M., **Amar**, R. and **Picard**, J. Compte rendu préliminaire d'un voyage zoologique sur les côtes de Corse. Bull. Inst. Océanogr. Monaco no. 1007 1952 : 1–22 1 text-fig.
- Picard**, J. see Gautier, Y.
- Picard**, J. see Pérès, J. M.
- 44.**—**Plumley**, W. J. and **Greaves**, R. W. Virginian Reefs of the Sacramento Mountains, New Mexico. J. Geol. Chicago **61** 1 1953 : 1–16 4 pls. 5 figs.
- Prenant**, M. see Bobin, G.
- 45.**—**Rawson**, D. S. The bottom fauna of Great Slave Lake. J. Fish. Res. Bd. Can. **10** 1953 : 486–520 11 figs.
- 46.**—**Razet**, P. Notes de faunistique armoricaine (2e note). Bull. Soc. Sci. Bretagne **26** 1–4 1953 : 33–41 3 figs.
- 47.**—**Shaw**, A. B. Paleontology of northwestern Vermont III. Miscellaneous Cambrian fossils. J. Paleont. **27** 1 1953 : 137–146 pl. 18 text-fig. 2.
- 48.**—**Shikama**, T. A handbook of illustrated fossils from Japanese and their adjacent Territories : 220–221 pl. 50 text-fig. 24, Kyôto, 1952.
- 49.**—**Shrock**, R. R. and **Twenhofel**, W. H. Principles of Invertebrate Paleontology 2nd ed. 1953 : 195–254 text-figs. (7) 1–45.
- 50.**—**Silén**, L. [attributed in error to P. Balavoine, teste P. Balavoine and L. Silén]. Folke Borg (1892–1950). Notice biographique et bibliographique. Ann. Centr. d'Études. Document. Paléont. Paris **1** 1953 : 3–6.
- 51.**—**Sinclair**, G. W. Middle ordovician beds in the Saguenay Valley, Quebec. Amer. J. Sci. **251** 12 1953 : 841–854 2 figs.
- Sloane**, J. S. see Lilly, S. J.
- 52.**—**Soule**, J. D. Post-larval zoarial development in Carnosa (Bryozoa Ctenostomata). Bull. S. Calif. Acad. Sci. **52** 3 1953 : 88–92 2 pls.
- Soule**, J. D. see Osburn, R. C.

**Twenhofel**, W. H. *see* Shrock, R. R.  
**53.**—**Vigeland**, I. Litt om bryozocerne eller mosdyrene. Saertryk av Fauna. Norsk zool. Foren. Tidsskr. no. 2 1953 : 76-87 6 text-figs.

**54.**—**Vigneaux**, M. Sur *Lunulites conica* Defrance, 1833 ; *Trochopora conica* d'Orbigny, 1850 et *Lunulites conica* Busk, 1859. P.V. Soc. Sci. phys. nat. Bordeaux **1946-48** [1952] : 55-57 4 figs.

**55.**—**Vigneaux**, M. Sur la présence dans le Lutetien de la Chalosse du genre *Batopora* Reuss, 1847. P.V. Soc. Sci. phys. nat. Bordeaux **1946-48** [1952] : 58-59.

**56.**—**Vinogradov**, A. P. The Elementary Chemical Composition of Marine Organisms. Mem. Sears Fdn. Mar. Res. **2** 1953 : 220-224.

**57.**—**Voigt**, E. Revision von : H. Hamm "Die Bryozoen des Maastrichter Obersenon" (1881). Mitt. geol. (St.) Inst. Hamb. **22** 1953 : 32-75 pls. 1-14 1 text-fig.

**58.**—**Vyalov**, O. S. Permian Sea in Dzhungaria. C.R. Acad. Sci. U.R.S.S. N.S. **85** 2 1952 : 401-404. [In Russian].

**59.**—**Wetzel**, W. Organische Inhaltskörper danzeitlicher Bryozoskelette. Schr. naturw. Ver. Schl.-Holst. **25** 1951 : 34-37 7 figs.

**60.**—**Wetzel**, W. Nachtrag zu meinem Artikel "Organische Inhaltskörper danzeitlicher Bryozoen" in Bd. 25 der Zeitschrift (1951). Schr. naturw. Ver. Schl.-Holst. **26** 2 1953 : 175.

**61.**—**Wojtusiak**, R. J., **Kalkowski**, W., **Medwecka-Kornas**, A., and **Kornas**, J. Investigations of the bottom fauna and flora in the Gulf of Gdańsk made by using a diving helmet. Part V. Bull. int. Acad. Cracae **1951BII** 4-6 1952 : 117-143 15 figs.

## II.—SUBJECT INDEX

### GENERAL

Obituary notice of Folke Borg, SİLÉN **50**.

Introductory account of Polyzoa, recent and fossil, with references and many figures, SHROCK & TWENHOFEL

**49** ; Morphology of the Polyzoa and glossary of terms, BASSLER **4** ; Freshwater Polyzoa of U.S.A., general account with key and many illustrations, PENNAK **42** ; Stratigraphically arranged list of chief publications, BASSLER **4** ; Popular account of Polyzoa, VIGELAND **53**.

H. Hamm (1881) collection in Berlin, revision of genera and species, VOIGT **57**.

Techniques for examination of fossil Polyzoa, BASSLER **4**.

Periodicity in evolution, graphs comparing rate of evolution (numbers of genera) in Polyzoa and other Invertebrates, NEWELL **37**.

Inorganic chemical composition of recent Polyzoa, VINOGRADOV **56**.

Organic bodies in fossil Polyzoa, WETZEL **59**, **60**.

Paired luminous organs of *Acanthodesia serrata*, KATO **24**.

Post-larval zoarial development in Carnosa, SOULE **57** ; in *Scrupellaria*, LUTAUD **30** ; Development of calcification in metamorphosis, LUTAUD **31** ; Somatic perennity, growth-budding and dissemination-budding, dedifferentiation and redifferentiation of somatic cells, BRIEN **12**.

Bacteria attacking *Cyphonautes* larvae, DEVÈZE **16** ; as food of *Cyphonautes* larvae, DEVÈZE **17**.

Inquilinism of *Laxosoma*, BOBIN & PRENANT **5**, **6**, **8**, **9**, **10**.

Polyzoa as fouling organisms, MAWATARI **34** ; Transport by ships, ALLEN **1**.

Ecology of rocky shores, LEWIS **28** ; of Polyzoa on sublittoral boulders in relation to currents, LILLY & others **29**.

### DISTRIBUTION

#### (a) RECENT

**Marine.**—Arctic, KLUGE **25B** ; Alaska, MURDOCH **36** ; LEWIS **28** ; Ireland, HUMPHRIES **23** ; LILLY & others **29** ; France, BALAVOINE **2** ; BOBIN & PRENANT **5**, **6**, **7**, **9**, **10**, **11** ; LUTAUD **30**, **31** ; Mediterranean, DEVÈZE **16**, **17** ; GAUTIER **20** ; GAUTIER & PICARD **21** ; Monaco, BOBIN & PRENANT **1** ; Corsica, PÉRÈS,

AMAR & PICARD 43 ; Poland, WOJTCIAK & others 61 ; Pacific Coast, U.S.A., OSBURN 39 ; OSBURN & SOULE 40 ; California, U.S.A., SOULE 52 ; Brazil, MARCUS 32 ; Japan, MAWATARI 34, 35 ; OKADA 38 ; Australia, DAKIN 13.

**Freshwater.**—France, RAZET 46 ; Canada, RAWSON 45 ; U.S.A., PENNAK 42 ; Lake Titicaca, PERU, MARCUS 33.

#### (8) FOSSIL

**General.**—Norway, HOLTEDAHL 22 ; Japan and adjacent territories, SHIKAMA 48.

**Pleistocene.**—California, OSBURN 39.

**Eocene.**—France, VIGNEAUD 55 ; Switzerland, LANTERNO 27.

**Cretaceous.**—France, BALAVOINE 3 ; Holland, VOIGT 57 ; Switzerland, LANTERNO 27.

**Permian.**—Russia, VYALOV 58.

**Carboniferous.**—Germany, PAPROTH 41 ; New Mexico, PLUMLEY & GRAVES 44.

**Devonian.**—Germany, KRÄUSEL 26 ; New York State, U.S.A., DALE 14 ; DAVIS 15.

**Silurian.**—New York State, U.S.A., DALE 14 ; DAVIS 15.

**Ordovician.**—Canada, SINCLAIR 51 ; New York State, U.S.A., DALE 14 ; KAY 25.

**Cambrian.**—Vermont, U.S.A., SHAW 47.

### III.—SYSTEMATIC INDEX

Full references are given only in the case of new species, the volume number being given in "small bold clarendon". In other cases the numeral in "large bold clarendon" refers to the list of titles where the full reference is to be found.

### GENERAL

Definitions all groups from phylum to families, genera listed with brief indications of some characters and many figures, BASSLER 4.

### ECTOPROCTA

#### GYMNOLAEMATA

##### CTENOSTOMATA

Ctenostomata discussed, BASSLER 4 p. G 32.—Defined, OSBURN & SOULE 40 p. 726.

*Averillia* defined, *A. setigera*, OSBURN & SOULE 40 p. 745.

Alcyoniidae defined, OSBURN & SOULE 40 p. 727.

*Alcyonium* *erectum*, p. 214, *sagamianum* sp. n. Recent Japan, p. 215, *kurilensis* sp. n. Recent Japan p. 216, MAWATARI Publ. Seto Mar. Lab. 3 2 1953.—*Alcyonium* defined, key to species, *A. polynum*, p. 727, *parasiticum*, *mammillatum*, p. 729, *pedunculatum*, *disciforme*, p. 730, *enteromorpha*, p. 731, OSBURN & SOULE 40.

*Amathia* defined, *A. consoluta*, p. 740, *tiducii*, *distans*, p. 741, OSBURN & SOULE 40.

*Arginella* defined, *A. palmata*, OSBURN & SOULE 40 p. 738.

*Bauerbankia imbricata*, *gracilis*, p. 743, *gracilis* var. *aggregata*, p. 744, OSBURN & SOULE 40.

*Buskia* defined, p. 746, *B. sericata* sp. n. Recent Galapagos Is., *B. nitens*, p. 747, Soule in OSBURN & SOULE Rep. Hancock Exped. 14 3 1953.

*Buskiidae* defined, OSBURN & SOULE 40 p. 746.

*Carnosa* defined, key to families, OSBURN & SOULE 40 p. 726.

*Clavopora* described, *C. occidentalis*, OSBURN & SOULE 40 p. 735.

*Clavoporidae* fam. n. for *Clavopora* Busk, Soule in OSBURN & SOULE, Rep. Hancock Exped. 14 3 1953 p. 735.

*Farella* defined, *F. elongata*, OSBURN & SOULE 40 p. 750.

*Flustrella* see *Flustrellidra*.—*Flustrella stolonifera*, p. 217, *stolonifera* var. *aspinosa* var. n. Recent Japan, p. 219, MAWATARI Publ. Seto Mar. Lab. 3 2 1953.—*Flustrella* defined, *F. corniculata*, p. 732, *gigantea*, p. 733, OSBURN & SOULE 40.

*Flustrellidra* nom. n. for *Flustrella* Gray 1848, preocc. Ehrenberg 1839 and d'Orbigny 1852, BASSLER Treatise Paleont. G 1953 p. G 33.

Flustrellididae **nom. n.** for *Flustrellidae* Hincks, BASSLER, Treatise Paleont **G** 1953 p. G 33.

†*Heteronema* sp. SHAW **47** p. 144.

*Immergentia* defined, p. 752, *I. californica*, p. 753, OSBURN & SOULE **40**.

*Immergentiidae* defined, OSBURN & SOULE **40** p. 752.

*Nolella* defined, *N. stipata*, OSBURN & SOULE **40** p. 737.

*Paludicellea* defined, OSBURN & SOULE **40** p. 736.

*Penetrantia* defined, *P. densa*, p. 753, *concharum*, p. 754, *sileni*, p. 755, OSBURN & SOULE **40**.

*Penetrantiidae* defined, OSBURN & SOULE **40** p. 753.

*Pherusella* defined, *P. brevituba*, OSBURN & SOULE **40** p. 734.—*P. brevituba*, SOULE **52** p. 88.

*Pherusellidae fam. n.* for *Pherusella* Soule 1951, Soule in OSBURN & SOULE, Rep. Hancock Exped. **14 3** 1953 p. 733.

†*Ropalonariidae emend. pro* Ropalonariidae, BASSLER, Treatise Paleont **G** 1953 p. G 35.

*Stolonifera* defined, OSBURN & SOULE **40** p. 745.

*Terebripora* defined, p. 751, *T. comma*, p. 752, OSBURN & SOULE **40**.

*Terebriporidae* defined, OSBURN & SOULE **40** p. 751.

*Terebriporina div. n.* for Terebriporidae, Immergentiidae, Penetrantiidae, Soule in OSBURN & SOULE, Rep. Hancock Exped. **14 3** 1953 p. 751.

*Triticella* defined, *T. pedicellata*, p. 748, *elongata*, p. 749, *tegeticula* O'Donnoghue synonym of *Farrella elongata*, p. 750, OSBURN & SOULE **40**.

*Walkeria* see *Walkeria*.—*Walkeria* defined, *V. tuberosa*, OSBURN & SOULE **40** p. 745.

*Vesicularia* defined, *V. fasciculata* **sp. n.** Recent Alaska, Soule in OSBURN & SOULE, Rep. Hancock Exped. **14 3** 1953 p. 739.

*Vesiculariidae* defined, OSBURN & SOULE **40** p. 739.

*Vesicularina* defined, OSBURN & SOULE **40** p. 739.

*Victorella pavida*, MARCUS **32** pp. 312, 316.

*Walkeria emend. pro.* *Walkeria*, BASSLER, Treatise Paleont, **G** 1953 p. G 35.

*Walkeriidae emend. pro.* *Walkeriidae*, BASSLER, Treatise Paleont, **G** 1953 p. G 35.

*Zoobotryon* defined, *Z. verticillatum*, OSBURN & SOULE **40** p. 742.

#### CYCLOSTOMATA

Cyclostomata discussed, BASSLER **4** p. G 37.—Discussed, p. 613, key to divisions, p. 614, glossary of terms, p. 616, OSBURN **39**.

*Acamptostega* Borg = *Tubuliporina* Hagenow, OSBURN **39** p. 614.

†*Actinotaxia* discussed, *A. magna*, VOIGT **57** p. 47.

*Alecto major* Johnston referred to *Proboscina*, p. 621, OSBURN **39**.

†*Apsendesia harmeri* Pergens a synonym of *Carinifer trenkneri* Hamm, VOIGT **57** p. 43.

*Articulata* discussed, OSBURN **39** p. 674.

*Ascosoeciidae* = *Petaloporidae*, VOIGT **57** p. 51.

†*Atagma* discussed, p. 48, *A. macropora*, p. 50, VOIGT **57**.

*Bathysoecia gen. n.* *Tubuliporidae* p. 658, genotype *B. bassleri* **sp. n.** Recent Alaska, p. 659, *hastingsae* **sp. n.** for *Tubulipora lobulata* Osburn not Hassall, p. 660, OSBURN, Rep. Hancock Exped. **14 3** 1953.

*Bicrisia edwardsiana*, OSBURN **39** p. 676.

*Bidentalophora* discussed, *B. cylindrica* **sp. n.** Recent California, OSBURN, Rep. Hancock Exped., **14 3** 1953 p. 670.

†*Bivestis* Hamm a synonym of *Atagma* Lonsdale, VOIGT **57** p. 48.

*Borgiola* discussed, p. 696, *B. rugosa*, p. 697, *pustulosa* **sp. n.** Recent Alaska, p. 698, OSBURN, Rep. Hancock Exped. **14 3** 1953.

*Calyptrostega* Borg = *Rectangularia* Waters, OSBURN **39** p. 615.

†*Camerapora* discussed, p. 66, *C. semipatina, mammillata* = *C. semipatina pars*, p. 67, VOIGT 57.

*Camptostega* Borg = *Articulata Busk*, OSBURN 39 p. 614.

*Cancellata*, OSBURN 39 p. 687.

†*Canuella* Borg a synonym of *Multicavae*, VOIGT 57 p. 53.

†*Carinifer trenkneri*, VOIGT 57 p. 43.

†*Ceidmonea* redefined, p. 68, *C. procerata, macgillivrayi* = *procera*, p. 69, VOIGT 57.

†*Ceriopora cavernosa* v. Hag. referred to *Lichenopora*, VOIGT 57 p. 44.

*Cerioporina* defined, OSBURN 39 p. 692.

†*Clausacamerapora* a synonym of *Camerapora*, VOIGT 57 p. 66.

†*Conotubigera hennigi* Pergens a synonym of *Patentaria depressa* Hamm., VOIGT 57 p. 41.

*Crisia micra* sp. n. Recent Brazil, MARCUS Arq. Mus. Nac. 42 1953 pp. 275, 314.—*Crisia* defined, key to species, p. 678, *C. serrulata* nom. n. for *Crisina serrata* Gabb & Horn preocc. = *Crisia pacifica* Robertson, p. 679, *C. occidentalis*, p. 680, *C. operculata*, p. 681, *maxima*, *eburnea*, p. 682, *cibaria*, p. 683, *elongata*, *pugeti*, p. 684, *C. punctata* d'Orb. and *C. californica* d'Orb. unrecognizable, p. 685, OSBURN, Rep. Hancock Exped. 14 3 1953.

*Crisidia cornuta*, OSBURN 39 p. 675.

*Crisidiidae* defined, key to genera, OSBURN 39 p. 674.

*Crisulipora* discussed, p. 685, *C. occidentalis*, p. 686, OSBURN 39.

*Defrancia intricata* referred to *Lichenopora*, OSBURN 39 p. 707.

*Diaperoecia floridana* referred to *Nevianipora*, MARCUS 32 pp. 275, 314.—*Diaperoecia* discussed, p. 640, key to species, *D. intricata* Canu & Bassler a synonym of *D. californica*, p. 642, *D. meandrina* Canu & Bassler referred to *Plagioecia*, p. 635, *D. radicata* Canu & Bassler synonym of *D. floridana* p. 644, *D. johnstoni*, p. 645, *intermedia*, p. 646, *claviformis* sp. n. Recent S. California, p. 647, OSBURN, Rep. Hancock Exped. 14 3 1953.

*Diastopora catillus* may be synonym of *Plagioecia anacapensis*, p. 637, OSBURN 39.

*Diastoporidae*, genera discussed, p. 627, genera defined, p. 628, OSBURN 39.

*Diplosolen* discussed, p. 639, *D. obelium*, p. 640, OSBURN 39.

*Discocytis* discussed, *D. californica* sp. n. Recent S. California, p. 690, *canadensis*, p. 691, OSBURN, Rep. Hancock Exped. 14 3 1953.

*Disporella pila* sp. n., *D. cristata*. Recent Brazil, MARCUS Arq. Mus. Nac. 42 1953 pp. 277, 314.—*Disporella* defined, key to species, p. 708, *fimbriata*, p. 709, *hispida*, p. 710, *californica*, p. 711, *ovoidea* sp. n. Recent Galapagos Is. & S. California, p. 713, *alaskensis* sp. n. Recent Alaska, *stellata* var. *pacifica* var. n. of *Defrancia stellata* Reuss, p. 716, *D. separata* sp. n. Recent U.S.-Mexican Boundary, p. 717, *octoradiata*, p. 718, *astraea* sp. n. Recent Galapagos Is., p. 719, OSBURN, Rep. Hancock Exped. 14 3 1953.

†*Domopora irregularis* a synonym of *Lichenopora cavernosa*, VOIGT 57 p. 44.

†*Entalophora intermedia*, VOIGT 57 p. 36.

*Entalophora* defined, *E. symmetrica*, p. 667, *proboscideoides*, *capita*, p. 668, *Entalophora* sp., p. 669, OSBURN 39.

*Entalophoridae* discussed, OSBURN 39 p. 666.

*Fasciculipora* discussed, p. 664, *pacifica* sp. n. Recent S. California, OSBURN, Rep. Hancock Exped. 14 3 p. 665.

*Fascigeridae* not recognized, OSBURN 39 p. 665.

*Filicrisia geniculata*, *franciscana*, OSBURN 39 p. 677.

*Filifascigera* discussed, p. 671, *F. clarionensis* sp. n. Recent S. & Lower California, p. 672, *Filifascigera* sp., p. 673, OSBURN, Rep. Hancock Exped. 14 3.

†*Fistulipora* nom. conserv. pending, BASSLER 4 p. G 83.—*F. crustula*, DALE 14 p. 91.

*Frondiporidae* defined, OSBURN 39 p. 671.

†*Heteropora crassa* v. Hag., pars (pl. V, fig. 13) = *Pennipora beyrichi*, p. 58, *H. cryptopora*, p. 62, VOIGT 57.

*Heteropora* discussed, p. 692, *H. magna*, p. 693, *pacifica*, p. 694, *alaskensis*, p. 695, OSBURN 39.

*Heteroporidae* discussed, OSBURN 39 p. 692.

*Heteroporina* Borg = *Cerioporina* Hagenow, OSBURN 39 p. 615.

†*Hexagonellidae emend. pro.* *Hexagonellinae* Crockford, BASSLER, Treatise Paleont. G 1953 p. G 87.

†*Homoeosolen bifurcatus*, VOIGT 57 p. 38.

*Hornera* defined, *H. pectinata*, p. 688, *pinnata*, p. 689. OSBURN 39.

*Horneridae* defined, OSBURN 39 p. 688.

*Idmonea radicata* Kirkpatrick referred to *Nevianipora*, *I. milneana* Smitt (non d'Orb.) a synonym, of *Diaperoecia floridana*, MARCUS 32 pp. 275, 314.—*I. palmata* O'Donoghue synonym of *Diaperoecia californica*, p. 642, OSBURN 39.

†*Lichenopora macropora*, *cavernosa*, VOIGT 57 p. 44.

*Lichenopora radiata*, p. 63, *fimbriata*, p. 64, *ancestrulae*, GAUTIER 20.—*L. tonica* sp. n. Recent Brazil, *L. novae-zelandiae* Marcus (non Busk) may be a synonym, MARCUS, Arq. Mus. Nac. 42 1953 pp. 276, 314.—*Lichenopora* defined, key to species, p. 701, *L. canaliculata*, p. 702, *verrucaria*, p. 703, *buskiana*, p. 704, *radiata* synonym of *novae-zelandiae*, p. 705, *radiata* Robertson = *L. novae-zelandiae*, p. 705, *L. radiata* CANU & Bassler = *Discoporella ovoidea*, p. 713, *L. intricata*, p. 707, OSBURN 39.

*Lichenoporidae* discussed, OSBURN 39 p. 701.

†*Locularia* choice of genotype discussed, pars = *Camerapora*, p. 64, *L. damesii*, p. 65, VOIGT 57.

*Microecia tubiabortiona* referred to *Plagioecia*, p. 636, OSBURN 39.

†*Multicavata* referred to *Petaloporidae*, *M. annulata* a synonym of *M. pustulosa*, VOIGT 57 p. 53.

*Nevianipora radicata*, *floridana*, MARCUS 32 pp. 275, 314.

†*Nodicrescis anomalopora* Ubags may be synonym of *Pennipora beyrichi*, VOIGT 57 p. 58.

*Oncousoeciidae* defined, *O. diastoporides*, p. 624, *canadensis*, p. 625, *ovoidea* sp. n. Recent California, *abrupta* sp. n. Recent S. California, p. 627, OSBURN Rep. Hancock Exped. 14 3 1953.

*Oncousoeciidae* discussed, genera defined, OSBURN 39 p. 618.

*Pachystega* Borg = *Cancellata* Gregory, OSBURN 39 p. 614.

†*Parascoecia* Canu a synonym of *Petalopora* Lonsdale, VOIGT 57 p. 51.

†*Patenaria depressa*, VOIGT 57 p. 41.

†*Pennipora* discussed, *P. beyrichi*, VOIGT 57 p. 58.

†*Petalopora* discussed, p. 51, *P. fallax*, p. 52, VOIGT 57.

†*Phalangella aulostoma* Hamm = base of *Entalophora* sp., VOIGT 57 p. 37.

*Plagioecia* discussed, p. 629, key to species, p. 630, *P. patina*, p. 631, *sarniensis*, p. 632, *tortuosa* sp. n. for *Mesenteropora meandrina* Robertson not Wood, p. 633, *grimaldii*, p. 634, *meandrina*, p. 635, *tubiaabortiva*, p. 636, *anacapensis* sp. n. Recent S. California, p. 637, *ambigua* sp. n. Recent Alaska, p. 638, *lactea*, p. 639, OSBURN, Rep. Hancock Exped. 14 3 1953.

*Platonea* discussed, p. 661, *veleronis* sp. n. Recent Galapagos Is., p. 662, *expansa* sp. n. Recent Galapagos Is., p. 663, *elongata* sp. n. Recent S. California, p. 664, OSBURN, Rep. Hancock Exped. 14 3 1953.

†*Polyphyma* Hamm a synonym of *Reptomulticava* d'Orbigny, p. 54, *P. bulbosa* a synonym of *R. heteropora*, p. 57, VOIGT 57.

*Proboscina* discussed, p. 620, *P. major*, p. 621, *sigmata* sp. n. Recent S. California, p. 622, *incrassata*, *lamellifera*, p. 623, OSBURN, Rep. Hancock Exped. 14 3 1953.

†*Radiocavaria* Hamm a synonym of *Petalopora* Lonsdale, VOIGT 57 p. 51.

*Rectangulata* discussed, OSBURN 39 p. 699.

†*Reptomulticava heteropora*, VOIGT 57 p. 57.

†*Semimulticava reticulata*, p. 45, *S. macropora* referred to *Lichenopora*, p. 44, VOIGT 57.

†*Spiroclausa procera* referred to *Ceidomenea*, VOIGT 57 p. 69.

†*Spirofascigera paucipora*, VOIGT 57 p. 40.

*Stelliagenowia nom. n.* for *Stellipora* Hagenow, subgen. of *Lichenopora*, BASSLER, Treatise Paleont. **G** 1953 p. G 74.

*Stellipora* see *Stelliagenowia*.

†*Stephanodesma* Hamm a synonym of *Homeosolen* Lonsdale, VOIGT 57 p. 38.

*Stomatopora* sp., ancestrula, GAUTIER 20 p. 62.—*Stomatopora* discussed, *S. granulata*, OSBURN 39 p. 619.

†*Trochiliopora caffini sp. n.* Cretaceous France, BALAVOINE Bull. Soc. géol. Fr. 63 1953 p. 579.

†*Truncatula jellyae* Pergens a synonym of *Homeosolen bifurcatus* (Hamm), VOIGT 57 p. 38.

*Tubulipora mitis* sp. n., pp. 274, 314, *macella* sp. n., pp. 275, 314, Recent Brazil, MARCUS, Arq. Mus. Nac. 42 1953.—*Tubulipora* defined, p. 648, key to species, p. 649, *T. occidentalis* Robertson synonym of *T. tuba* (Gabb & Horn), p. 650, *fasciculifera* var. of *tuba*, p. 651, *pacifica*, p. 652, *pulchra, flexuosa*, p. 653, *egregia* sp. n. Recent Ecuador & Mexico, *concinna*, p. 655, *admiranda* sp. n. Recent S. California, p. 656, *flabellaris*, p. 657, *lobulata* Osburn not Hassall referred to *Bathysoecia*, p. 660, *dawsoni* Hincks a synonym of *Dia-peroecia californica*, p. 642, OSBURN, Rep. Hancock Exp. 143 1953.

*Tubuliporidae* discussed, p. 647, key to genera, p. 648, OSBURN 39.

*Tubuliporina* discussed, key to families, OSBURN 39 p. 617.

*Unicava californica* d'Orb. referred to *Disporella*, OSBURN 39 p. 711.

#### TREPOSTOMATA

†*Trepostomata* discussed, BASSLER 4 p. G 90.

†*Diplotrypa petropolitana*, HOLTDAHL 22 p. 195.

†*Eridotrypa solida*, DALE 14 p. 91.

†*Lioclema asperum*, DALE 14 p. 91.

†*Prasopora orientalis*, KAY 25 pp. 44, 120.

†*Stenoporidae emend. pro.* Stenoporinae, Waagen & Wentzel, BASSLER 4 p. G 101.

#### CRYPTOSTOMATA

†*Cryptostomata* discussed, BASSLER 4 p. G 119.

†*Acanthoclema asperum*, DALE 14 p. 91.

†*Archimedes*, genotype and synonymy, EASTON & DUNCAN 18 p. 737.

†*Clathropora frondosa*, DALE 14 p. 91.

†*Cyclopelta winteri*, fam. Fenestellidae, KRÄUSEL 26 p. 43.

†*Dictyocladia* see *Matheropora*.

†*Fenestella nom. conserv.* pending, BASSLER 4 p. G 120.

†*Matheropora nom. n.* for *Dictyocladia* Mather not Pomet, BASSLER, Treatise Paleont. **G** 1953 p. G 128.

†*Ptilodictyidae emend. pro* Ptilodictyonidae, BASSLER 4 p. G 136.

†*Rhabdomesidae emend pro* Rhabdomesontidae, BASSLER 4 p. G 130.

†*Rhinidiictyidae emend pro* Rhinidiictyonidae, BASSLER 4 p. G 140.

†*Rhinopora verrucosa*, DALE 14 p. 91.

†*Stictotrypa punctipora*, DALE 14 p. 91.

#### CHEILOSTOMATA

*Cheiostomata* discussed, BASSLER 4 p. G 147.

*Acanthodesia serrata*, KATO 24 p. 9.

*Aetea recta*, GAUTIER 20 p. 41.

*Amphiblestrum trifolium*, OSBURN 39 p. 775.

*Arachnopusia pusae* sp. n. Recent Brazil. MARCUS, Arq. Mus. Nac. 42 1953 pp. 294, 315.

†*Batopora*, VIGNEAUX 55 p. 58.

*Beania cupulariensis*, MARCUS 32 pp. 291, 315.

*Bicellariella ciliata* form. *edentata* form. n. Recent Brazil, MARCUS, Arq. Mus. Nac. 42 1953 pp. 292, 315.

*Bugula brasiliensis* may be *B. turrita*, MARCUS 32 pp. 293, 315.—*B. flabellata* var. *acuminata* var. n. Recent Galapagos Is., OSBURN, Rep. Hancock Exped. 143 1953 p. 776.

*Caberea boryi*, HUMPHRIES 23.

*Canda retiformis* Canu & Bassler, 1929 and Okada & Mawatari 1936 may be *C. clypeata*, MARCUS 32 pp. 290, 315.

*Chapperia acanthina*, MARCUS 32 pp. 281, 314.

*Chorizopora bronngartii* [sic], ancestrula, GAUTIER 20 p. 47.

*Electra angulata*, p. 5, *tenella*, p. 7, MARWATARI 34.

*Emballotheeca stylifera*, OSBURN 39 p. 777.

*Escharella stylifera* Levinsen referred to *Emballotheeca*, p. 777, *E. porifera* forma *cancellata* Smitt referred to *Hippodiplosia*, p. 778, OSBURN 39.

*Escharoides coccinea*, LUTAUD 31 p. 36. —*E. martae* sp. n. *E. tridens* for *E. praestans* var. *tridens*, Recent Brazil, MARCUS, Arq. Mus. Nac. 42 1953 pp. 299, 316. —*E. jacksoni*, OSBURN 39 p. 780.

Exochellidae emend. pro Exochellinae, BASSLER 4 p. G 205.

*Fenestrulina malusii*, MARCUS 32 pp. 300, 316.

*Gephyrophora imperfecta* referred to *Hippaliosina*, MARCUS 32 pp. 306, 316.

†*Graptopora* see *Graptoporella*.

†*Graptoporella* nom. n. for *Graptopora* Lang not Salter, BASSLER, Treatise Paleont. G 1953 p. G 189.

*Haplopoma impressa* var. *bimucronata*, ancestrula, GAUTIER 20 p. 49.

*Hincksina gothica* sp. n. Recent Alaska, OSBURN, Rep. Hancock Exped. 14 3 1935 p. 774.

*Hippaliosina imperfecta*, MARCUS 32 pp. 306, 316.

*Hippopodinella tregouboffi* sp. n. Recent Mediterranean, GAUTIER, Bull. Inst. océanogr. Monaco. No. 1008 1952 p. 10. [Species omitted from Z.R. 89].

"Hippoporidées nom. nov." [vernacular], GAUTIER 20 p. 53.

Hippoporinidae emend. pro Hippoporininae, BASSLER 4 p. G 202.

*Holoporella atlantica*, MARCUS 32 pp. 310, 316.

*Jullienula* nom. n. for *Lyrula* Jullien not Wollaston, BASSLER, Treatise Paleont. G 1953, p. G 186.

*Lacerna gabriellae* sp. n. Recent Brazil, MARCUS Arq. Mus. Nac. 42 1953 pp. 297, 315.

*Lagenipora* discussed, p. 309, *L. aragoni* sp. n. Recent Brazil, pp. 308, 316, MARCUS, Arq. Mus. Nac. 42 1953.

*Lunulites conica* Defrance 1833 = *Trochopora conica* d'Orbigny, *L. conica* Bush non Def. = *L. burdigalensis* Canu, VIGNEAUX 54 pp. 56, 57.

*Lyrula* see *Jullienula*.

*Mastigophora* see *Mastigophorella*. — *Mastigophora porosa*, MARCUS 32 pp. 299, 316.

*Mastigophorella* nom. n. for *Mastigophora* Hincks not Felder, BASSLER, Treatise Paleont. G 1953 p. G 220.

*Membranipora annae* nom. n. for *M. hastingsae* Osburn preocc., OSBURN, Rep. Hancock Exped. 14 3 1953 p. 774.

*Microporella arctica*, OSBURN 39 p. 779.

*Monoporella divae* sp. n. Recent Brazil, MARCUS, Arq. Mus. Nac. 42 1953 pp. 286, 315.

*Mucronella microstoma*, OSBURN 39 p. 781.

*Pachyegis brunnea*, OSBURN 39 p. 777.

*Parellisina centetica* sp. n. Recent Brazil, MARCUS, Arq. Mus. Nac. 42 1953 p. 314 (as *Parelissina* on p. 281).

*Phylactella* see *Phylactellipora*.

*Phylactellipora* nom. n. for *Phylactella* Canu & Bassler not Hincks, genotype *Lepralia collaris* Norman, *P. hincksi* nom. n. for *Phylactella labrosa* Hincks not Busk, BASSLER, Treatise Paleont. G 1953 p. G 217.

*Phylactelliporidae* fam. n. for *Phylactellipora*, *Cheilonella*, *Hippolyrula*, *Phylactellina*, *Pleurolyrula*, *Pleuromucrum*, *Tremolyrula*, BASSLER, Treatise Paleont. G 1953, p. G 217.

*Porella minuta*, OSBURN 39 p. 780.

*Puellina gattyae*, ancestrula, GAUTIER 20 p. 47.

*Reteporellina evelinae* sp. n. Recent Brazil, MARCUS 32 pp. 302, 316.

*Schizobrachiella sanguinea*, GAUTIER 20 p. 55.

*Schizomavella auriculata*, GAUTIER 20 p. 50.

*Schizopodrella longirostris*, GAUTIER 20 p. 51.

*Schizoporellidées [vernacular]*, GAUTIER 20 p. 49.

*Scruparia ambigua*, MARCUS 32 p. 279.

*Scrupocellaria reptans*, LUTAUD 30 p. 42.—*S. ornithorhyncus*, p. 287, *drachi* sp. n. pp. 288, 315, *micheli* sp. n. pp. 289, 315, Recent Brazil, MARCUS, Arq. Mus. Nac. 42 1953.

*Smittina smittiella*, MARCUS 32 pp. 302, 316.

*Smittipora levinseni*, MARCUS 32 pp. 282, 314.

*Steganoporella magnilabris*, pp. 284, 315, *buskii*, pp. 285, 315, MARCUS 32.

*Steginoporellidae emend. pro Steganoporellidae*, BASSLER 4 p. G 171.

*Stephanosella alipioi* sp. n. Recent Brazil, MARCUS, Arq. Mus. Nac. Brazil 42 1953 pp. 295, 315.

*Trematoocia osburni* sp. n. Recent Brazil, MARCUS, Arq. Mus. Nac. 42 1953 pp. 311, 316.

*Tremoschizodina fulgens* sp. n. Recent Brazil, MARCUS, Arq. Mus. Nac. 42 1953 pp. 308, 316.

*Trigonopora gulo* sp. n., *unguiculata*, Recent Brazil, MARCUS, Arq. Mus. Nac. 42 1953 pp. 304, 316.

### PHYLACTOLAEMATA

*Fredericella australis* var. *browni*, MARCUS 33 p. 149.

*Stoletta agilis* subsp. *tica* subsp. n. Recent Lake Titicaca, Peru, MARCUS, Bol. Fac. Ciênc. São Paulo, Zool. no. 18 1953 p. 152.

### ENTOPROCTA

Entoprocta discussed, OSBURN 39 p. 759.

*Ascopodaria macropus* Robertson may be synonym of *Barentsia geniculata*, OSBURN 39 p. 769.

*Barentsia gorbunovi* sp. n. Recent Arctic, KLUGE, Exp. Drifting Ice 3 1946, pp. 153, 157.—*Barentsia* discussed, key to species, p. 764, *B. gracilis*, p. 765, *discreta*, p. 766, *ramosa*, *gorbunovi*, p. 767, *robusta* sp. n. Recent Vancouver,

p. 768, *geniculata*, p. 769, *subrigida* sp. n. Recent S. California, p. 770, OSBURN, Rep. Hancock Exped. 14 3 1953.—*Barentsia* correct genus for *Silicularia rosea*, *minima* Hargitt, supposed Hydroids, GAUTIER & PICARD 21 p. 57.

*Coriella* gen. n. Pedicellinidae, genotype *C. stolonata* sp. n. Recent Arctic, KLUGE, Exp. Drifting Ice 3 1946 pp. 155, 157.—*Coriella* defined, *C. stolonata*, OSBURN 39 p. 771.

*Loxocalyx tethya*, p. 381, *teissieri* sp. n. Recent France on *Dysidea fragilis* (Montagu), p. 382, BOBIN & PRENANT, Bull. Soc. zool. Fr. 78 1953.—*Loxocalyx* sp., OSBURN 39 p. 761.

*Loxomespilon* gen. n. Loxosomatidae, monotypic for *L. perezi* sp. n. Recent France on branchia and ctenidia of *Sthenelais boa* (Johnston), BOBIN & PRENANT, Arch. Zool. exp. gén. 91 Notes & Rev. 1 1953 p. 29.

*Loxosoma claparedei* sp. n. Recent France on *Notomastus latericeus* Sars, BOBIN & PRENANT, Arch. Zool. exp. gén. 91 Notes & Rev. 1953 p. 25.—*L. loricatum*, BOBIN & PRENANT 10 p. 127.—*L. singulare*, BOBIN & PRENANT 9 p. 87.—*L. davenporti*, OSBURN 39 p. 760.

Loxosomatidae defined, OSBURN 39 p. 760.

*Loxosomella murmanica*, p. 20, *atkinsae* sp. n. Recent France, on *Phascolion*, p. 28, *aryae* sp. n. Recent France, on *Phascolion*, p. 32, *L. nitschei*, p. 34, BOBIN & PRENANT, Arch. Zool. exp. gén. 90 1953 Notes & Rev. I.—*L. fawceti* sp. n. for *Loxosoma singulare* auctt. not Keferstein, Recent France, BOBIN & PRENANT, Bull. Soc. zool. Fr. 78 1 1953 p. 92.—*L. fagei* sp. n. Recent France on *Hermione*, p. 125, *L. claviformis*, p. 127, BOBIN & PRENANT, Bull. Soc. zool. Fr. 78 2-3, 1953.—*L. brumpti* sp. n. Recent France on *Phascolion strombi*, p. 95, *fungiformis*, sp. n. Recent France on *Phascolion strombi*, p. 98, *cuenoti* sp. n. Recent France on *Phascolion strombi*, p. 100 *L. murmanica*, *nitschei*, p. 102, BOBIN & PRENANT, Arch. Zool. exp. gén. 90 Notes & Rev. 3 1953.—

*L. globosa* sp. n. Recent Monaco on *Hermione*, p. 3, *L. claviformis*, p. 6, *L. gautieri* sp. n. Recent Monaco on *Phascolosoma vulgare*, p. 7, BOBIN & PRENANT, Bull. Inst. Océanog. Monaco 1030 1953.

*Myosoma* defined, *M. spinosa*, OSBURN  
**39** p. 762.

*Pedicellina* defined, p. 762, *P. nutans*  
Robertson, *echinata* Robertson and

*americana* Leidy synonyms of *P. cernua*,  
p. 763, OSBURN **39**.

Pedicellinidae defined, key to genera,  
OSBURN **39** p. 761.